FIG. 1 (PRIOR ART)

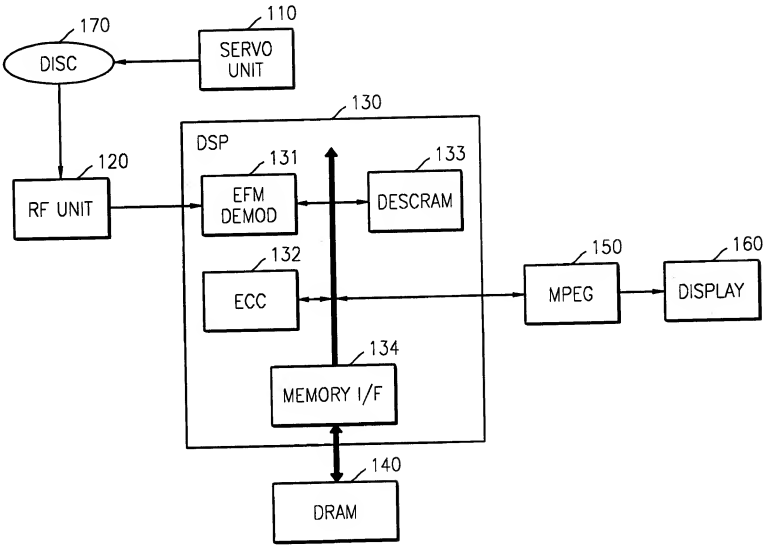

FIG. 2 (PRIOR ART)

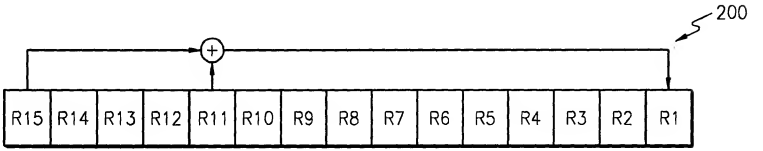

FIG. 3 (PRIOR ART)

INITIAL SETTING VALUE	INITIAL VALUE	INITIAL SETTING VALUE	INITIAL VALUE
0H	0001H	8H	0010H
1H	5500H	9H	5000H
2H	0002H	AH	0020H
3H	2A00H	BH	2001H
4H	0004H	CH	0040H
5H	5400H	DH	4002H
6H	0008H	EH	0080H
7H	2800H	FH	0005H

FIG. 4 (PRIOR ART)

LFSR(n)	LFSR(n+1)
R15	R7
R14	R6
R13	R5
R12	R4
R11	R3
R10	R2
R9	R1
R8	R15⊕R11
R7	R14⊕R10
R6	R13⊕R9
R5	R12⊕R8
R4	R11⊕R7
R3	R10⊕R6
R2	R9 ⊕R5
R1	R8 ⊕R4

FIG. 5

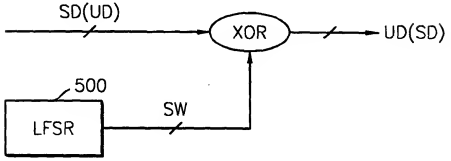

FIG. 6

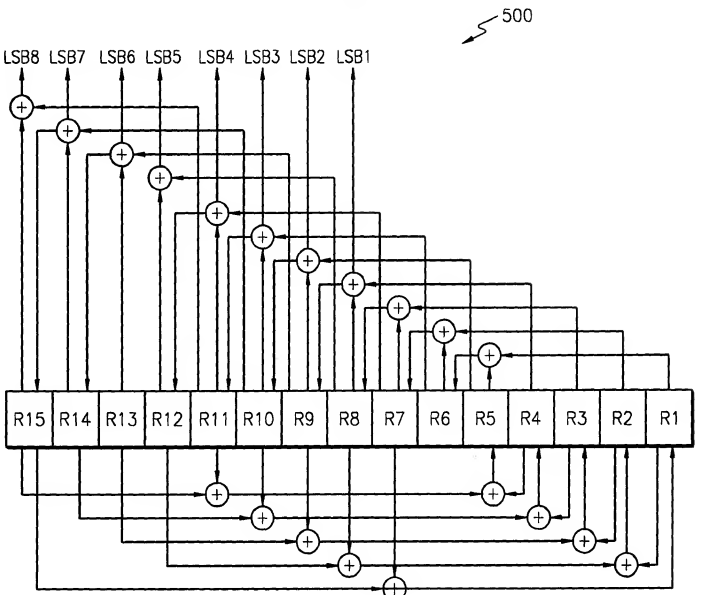
500
LSB8
LSB7
LSB6
LSB5
LSB4
LSB3
LSB2
LSB1
R15
R14
R13
R12
R11
R10
R9
R8
R7
R6
R5
R4
R3
R2
R1

FIG. 7

LFSR(n)	LFSR(n+1)	USB	LSB
R15	R14⊕R10		
R14	R13⊕R9		
R13	R12⊕R8		
R12	R11⊕R7		
R11	R10⊕R6		
R10	R9 ⊕R5		
R9	R8 ⊕R4		
R8	R7 ⊕R3	R7 ⊕R3	R15⊕R11
R7	R6 ⊕R2	R6 ⊕R2	R14⊕R10
R6	R5 ⊕R1	R5 ⊕R1	R13⊕R9
R5	R15⊕R11⊕R4	R15⊕R11⊕R4	R12⊕R8
R4	R14⊕R10⊕R3	R14⊕R10⊕R3	R11⊕R7
R3	R13⊕R9 ⊕R2	R13⊕R9 ⊕R2	R10⊕R6
R2	R12⊕R8 ⊕R1	R12⊕R8 ⊕R1	R9 ⊕R5
R1	R15⊕R7	R15⊕R7	R8 ⊕R4